



WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau Land Resources Management

Check the status of your application: www.des.nh.gov/onestop



RSA/Rule: [RSA 482-A/ Env-Wt 100-900](#)

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No. _____
			Check No. _____
			Amount _____
			Initials _____

1. REVIEW TIME: Indicate your Review Time below. To determine review time, refer to [Guidance Document A](#) for instructions.

☐ Standard Review (Minimum, Minor or Major Impact)

☒ Expedited Review (Minimum Impact only)

2. MITIGATION REQUIREMENT:

If mitigation is required a Mitigation-Pre Application meeting must occur prior to submitting this Wetlands Permit Application. To determine if Mitigation is Required, please refer to the [Determine if Mitigation is Required Frequently Asked Question](#).

Mitigation Pre-Application Meeting Date: Month: ____ Day: ____ Year: ____

☐ N/A - Mitigation is not required

3. PROJECT LOCATION:

Separate wetland permit applications must be submitted for each municipality that wetland impacts occur within.

ADDRESS: **North Shore Road**

TOWN/CITY: **Hebron**

TAX MAP: **7**

BLOCK: _____

LOT: **37**

UNIT: _____

USGS TOPO MAP WATERBODY NAME: **Stream/Newfound Lake**

☐ NA

STREAM WATERSHED SIZE: **0.09 sq. mi** ☐ NA

LOCATION COORDINATES (If known): **N43.701279/W-71.782206**

☒ Latitude/Longitude ☐

4. PROJECT DESCRIPTION:

Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. DO NOT reply "See Attached" in the space provided below.

Replacing and upgrading an existing 18" RCP/VCP culvert to a 30" HDPE. Relocate the existing discharge pad to the new culvert location. Adding an outlet pipe from a sediment removal device to the stream. Future work includes adding storm drain structures along the road west of the Sleepy Hollow beach which will drain to a separate sediment removal device prior to entering the stream.

5. SHORELINE FRONTAGE:

☐ NA This does not have shoreline frontage.

SHORELINE FRONTAGE: **5'**

Shoreline frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line.

6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:

Please indicate if any of the following permit applications are required and, if required, the status of the application.

To determine if other Land Resources Management Permits are required, refer to the [Land Resources Management Web Page](#).

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2017-00967	<input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:

See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: NHB **17** - **1279**

b. ☐ [Designated River](#) the project is in ¼ miles of: _____; and
date a copy of the application was sent to the [Local River Management Advisory Committee](#): Month: ____ Day: ____ Year: ____
☒ N/A

shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

8. APPLICANT INFORMATION (Desired permit holder)			
LAST NAME, FIRST NAME, M.I.: Turgeon, Christopher			
TRUST / COMPANY NAME: NH Dept. of Transportation		MAILING ADDRESS: 8 Eastman Hill Road	
TOWN/CITY: Enfield		STATE: NH	ZIP CODE: 03748
EMAIL or FAX: Christopher.Turgeon@dot.nh.gov		PHONE: 603-448-2654	
ELECTRONIC COMMUNICATION: By initialing here: <u>CLT</u> , I hereby authorize NHDES to communicate all matters relative to this application electronically			
9. PROPERTY OWNER INFORMATION (If different than applicant)			
LAST NAME, FIRST NAME, M.I.:			
TRUST / COMPANY NAME:		MAILING ADDRESS:	
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically			
10. AUTHORIZED AGENT INFORMATION			
LAST NAME, FIRST NAME, M.I.:		COMPANY NAME:	
MAILING ADDRESS:			
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL or FAX:		PHONE:	
ELECTRONIC COMMUNICATION: By initialing here _____, I hereby authorize NHDES to communicate all matters relative to this application electronically			
11. PROPERTY OWNER SIGNATURE:			
See the Instructions & Required Attachments document for clarification of the below statements			
By signing the application, I am certifying that:			
<ol style="list-style-type: none"> 1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application. 2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document. 3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900. 4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type. 5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative. 6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47. 7. I have submitted a Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for NHPA 106 compliance. 8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project. 9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate. 10. I understand that the willful submission of falsified or misrepresented information to the New Hampshire Department of Environmental Services is a criminal act, which may result in legal action. 11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining. 12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not 			
 Property Owner Signature		Douglas R. King Print name legibly	7/27/2017 Date

MUNICIPAL SIGNATURES

12. CONSERVATION COMMISSION SIGNATURE

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11;
2. Believes that the application and submitted plans accurately represent the proposed project; and
3. Has no objection to permitting the proposed work.



Print name legibly

Date

DIRECTIONS FOR CONSERVATION COMMISSION

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained **prior** to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will reviewed in the standard review time frame.

13. TOWN / CITY CLERK SIGNATURE

As required by Chapter 482-A:3 (amended 2014), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.



Town/City Clerk Signature

Print name legibly

Town/City

Date

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3,I

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above;
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

14. IMPACT AREA:

For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact

Permanent: impacts that will remain after the project is complete.

Temporary: impacts not intended to remain (and will be restored to pre-construction conditions) after the project is complete.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Perennial Stream / River	/ <input type="checkbox"/> ATF	52 / 13 <input type="checkbox"/> ATF
Lake / Pond	12 / <input type="checkbox"/> ATF	30 / <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Tidal Water	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
TOTAL	12 /	82 / 13

15. APPLICATION FEE: See the Instructions & Required Attachments document for further instruction

☒ Minimum Impact Fee: Flat fee of \$ 200

☐ Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) 94 sq. ft. X \$0.20 = \$ 18.80

Temporary (seasonal) docking structure: sq. ft. X \$1.00 = \$

Permanent docking structure: sq. ft. X \$2.00 = \$

Projects proposing shoreline structures (including docks) add \$200 = \$

Total = \$ 18.80

The Application Fee is the above calculated Total or \$200, whichever is greater = \$ 200

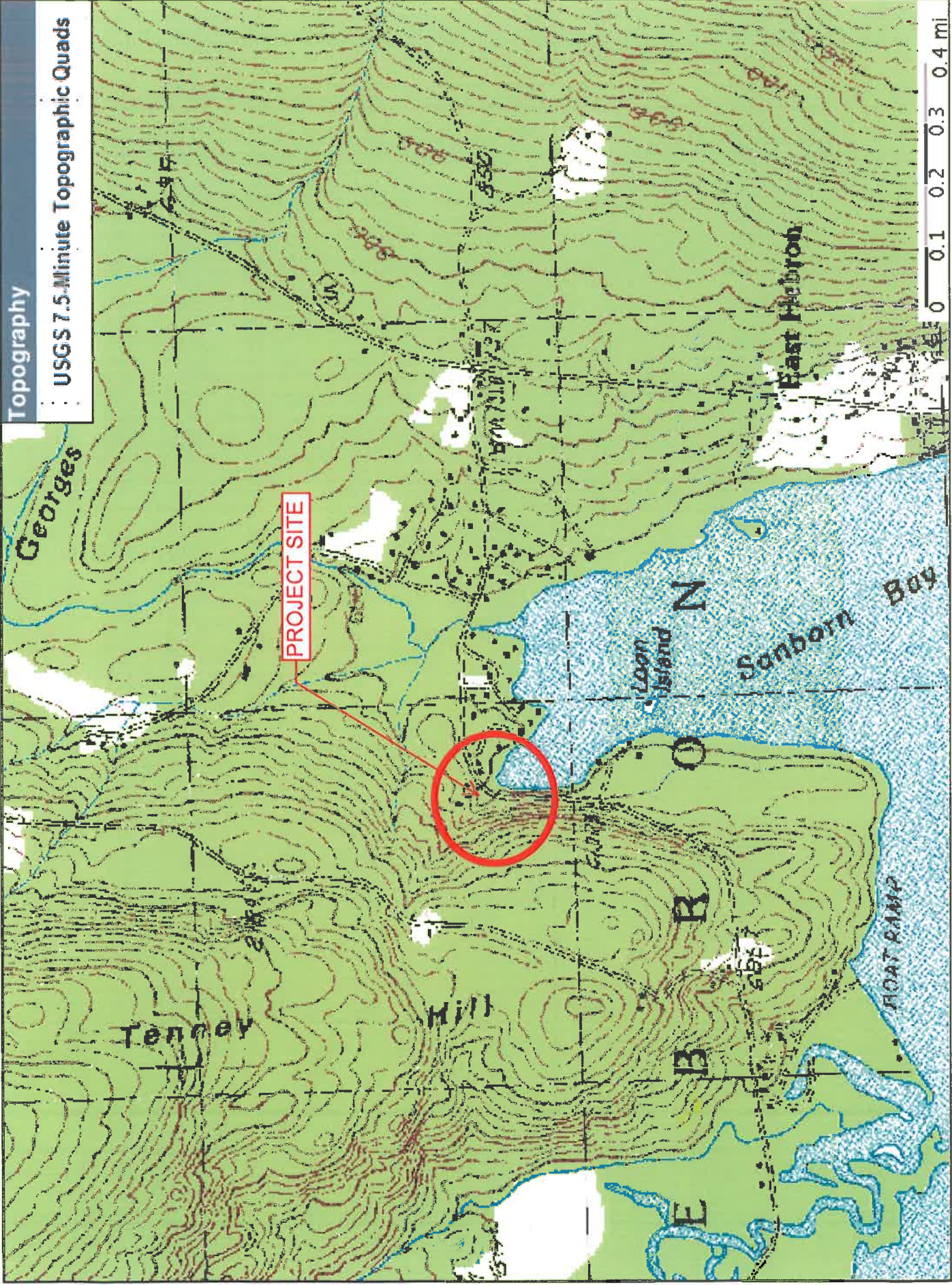
shoreland@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

www.des.nh.gov

Topography

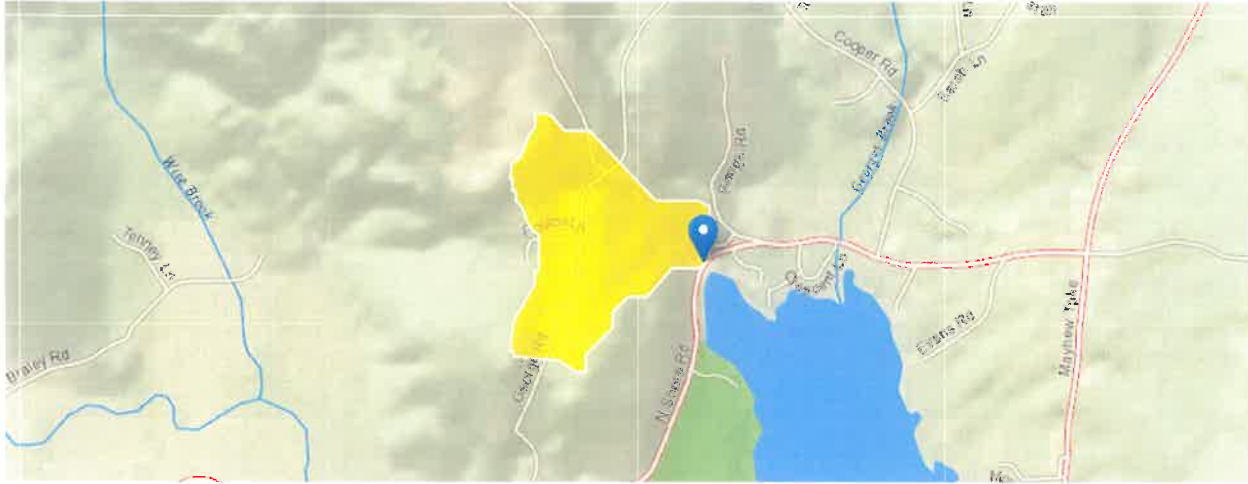
USGS 7.5-Minute Topographic Quads



Hebron 41473

Region ID:
Workspace ID:
Clicked Point (Latitude, Longitude):
Time:

NH
NH20170801080417686000
43.70120, -71.78233
2017-08-01 08:05:09 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit	
DRNAREA	Area that drains to a point on a stream	0.09	square miles	= 57.6 acres
CONIF	Percentage of land surface covered by coniferous forest	23.3101	percent	
PREBC0103	Mean annual precipitation of basin centroid for January 1 to March 15 winter period	7.24	Inches	
BSLDEM30M	Mean basin slope computed from 30 m DEM	14.086	percent	
MIXFOR	Percentage of land area covered by mixed deciduous and coniferous forest	22.6481	percent	
PREG_03_05	Mean precipitation at gaging station location for March 16 to May 31 spring period	8.9	Inches	
TEMP	Mean Annual Temperature	42.98	degrees F	
TEMP_06_10	Basinwide average temperature for June to October summer period	59.459	degrees F	
PREG_06_10	Mean precipitation at gaging station location for June to October summer period	18.1	Inches	
ELEVMAX	Maximum basin elevation	980.431	feet	



New Hampshire Natural Heritage Bureau

To: Chris Turgeon
8 Eastman Hill Road
Enfield, NH 03748

Date: 4/27/2017

From: NH Natural Heritage Bureau

Re: Review by NH Natural Heritage Bureau of request dated 4/27/2017

VALID ONLY FOR NOTIFICATION OR MINIMUM EXPEDITED APPLICATIONS SUBMITTED TO
THE NHDES WETLANDS BUREAU

NHB File ID: NHB17-1279

Applicant: Chris Turgeon

Location: Tax Map(s)/Lot(s):
Hebron

Project Description: To remove and replace an existing culvert with a slight
adjustment at the lake

The NH Natural Heritage database has been checked for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government. We currently have no recorded occurrences for sensitive species near this project area.

A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences, based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

This report is valid through 4/26/2018.



MAP OF PROJECT BOUNDARIES FOR NHB FILE ID: NHB17-1279





United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
<http://www.fws.gov/newengland>



In Reply Refer To:

August 01, 2017

Consultation Code: 05E1NE00-2017-SLI-2336

Event Code: 05E1NE00-2017-E-05091

Project Name: Hebron 41473

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the

human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2017-SLI-2336

Event Code: 05E1NE00-2017-E-05091

Project Name: Hebron 41473

Project Type: TRANSPORTATION

Project Description: Replacing and relocating an existing 18" RCP/VCP culvert to a 30" HDPE. Relocate the existing discharge pad to the new culvert location. Adding an outlet pipe from a sediment removal device to the stream.

Project Location:

Approximate location of the project can be viewed in Google Maps:

<https://www.google.com/maps/place/43.701222481421N71.7822407522144W>



Counties: Grafton, NH

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i>	Threatened
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/9045	

Critical habitats

There are no critical habitats within your project area under this office's jurisdiction.

Large, Sarah

From: Hicks, Michael C CIV USARMY CENAE (US) <Michael.C.Hicks@usace.army.mil>
Sent: Thursday, August 03, 2017 10:46 AM
To: Large, Sarah
Subject: RE: Hebron 41473 NLEB Coordination (UNCLASSIFIED)

Categories: Attention

CLASSIFICATION: UNCLASSIFIED

Sarah,

No coordination is necessary on this one, I can make a No Effect call on this project.

There is No Effect on a project when;

1. There are no trees being cut 3" and greater in diameter, "in the project area".
2. There is no disturbance of rip rap "associated with an existing dam".
3. There is no work on or disturbing the substructure (underneath) of a "bridge", not small culverts where the NLEB could not possibly live in.

If you want to, you could get this out to your Engineers and they could write up their applications to address the above and it would expedite the review when I can quickly make the call.

The other species that they could address in the application is Small-whorled-Pagonia, where they could do a walk down (survey) of the site and document if they find this plant or not.

If you have any questions, we can talk about it at our next meeting on the 16th.

Thanks,
Mike

Michael Hicks, PM
USACE, REG DIV., BR. C
978-318-8157

-----Original Message-----

From: Large, Sarah [<mailto:Sarah.Large@dot.nh.gov>]
Sent: Wednesday, August 02, 2017 1:08 PM
To: Hicks, Michael C CIV USARMY CENAE (US) <Michael.C.Hicks@usace.army.mil>
Subject: [Non-DoD Source] Hebron 41473 NLEB Coordination

Hi Mike,

I am assisting District 2 with a Wetlands Permit Application for work in Hebron, NH near Newfound Lake. They are replacing part of an existing 18"RCP/VCP culvert with a 30" HDPE and relocating/ adding a new section of 30" HDPE which will outlet into Newfound Lake 10' north of the where it currently outlets into the lake. I got a hit for NLEB on my

USF&WS IPaC search so I wanted to follow up with you to see if there is any further needed coordination. They will not be doing any tree clearing or trimming with this project.

There are no known hibernacula within the town of Hebron according to a list we received from NH Fish & Game and we did not get any hits for NLEB through our NHB search.

Will any further coordination be necessary in regards to the NLEB hit we got on our IPaC search?

Best wishes,

Sarah Large

Wetlands Program Aide

NH Department of Transportation

Bureau of Environment

CLASSIFICATION: UNCLASSIFIED

NHDOT Cultural Resources Review

For the purpose of compliance with regulations of the National Historic Preservation Act, the Advisory Council on Historic Preservation's *Procedures for the Protection of Historic Properties* (36 CFR 800), the US Army Corps of Engineers' *Appendix C*, and/or state regulation RSA 227-C:9, *Directive for Cooperation in the Protection of Historic Resources*, the NHDOT Cultural Resources Program has reviewed the enclosed Standard Dredge and Fill Application for potential impacts to historic properties.

Proposed Project:

Location: The drainage corridor extends approximately east/west from the west side of North Shore Road (Map 7/Lot 37) to the northwest Sanborn Bay bank of Newfound Lake cutting across Sleepy Hollow Village Association property.

Current 18" pipe (in place since 1972, personal communication Chris Turgeon) extends under and east/west of North Shore Road; proposing removing and replacing existing 18" reinforced concrete Pipe (RCP) and vitrified Clay Pipe (VCP) culvert with a 30" high density polyethylene (HDPE) pipe that will outlet 10 feet north of the existing alignment.

Phase 1- will establish an 18" diversion pipe alignment that extends and shifts to the south under and on both sides nearest the road.

Phase 2- The existing 18" VCP will then be removed from under and along the road; the original alignment at the road will be replaced with 30" HDPE that will extend east of the road towards the north, and will outlet into Newfound Lake 10 ft north of where it currently outlets into the lake. The former 18" alignment east of the road will then be cut, capped and filled.

Work will also add storm drain structures west of the beach which will drain to a separate sediment removal device.

Public Involvement: As this project spans private property, apparently Sleepy Hollow Association is involved and is responsible for shuffleboard adjustments, installing drain line from approximately 3 ft from NH to outlet, any wall masonry

Cultural Features east of road, listed west to east:

- Sloping grass lawn and riprap
- Catch basin where pipe changes from RCP to VCP
- Sloping to relatively level grass lawn
- Flag pole (no impact)
- Cement pad used as shuffleboard court and picnic area. The former alignment extends under this court, and the proposed alignment of the 30" pipe will impact the north end of the shuffleboard court.
- field stone and mortar large fireplace (no impact)
- Field stone and mortar retaining wall with metal culvert at base
- Beach and a concrete sluice to channel overflow into Newfound Lake and likely preserve adjacent beach fill

Above Ground Review

Known/approximate age of structure:

☒ No Potential to Cause Effect/No Concerns

As long as there are no impacts to the fire place, and there are limited impacts to the stone retaining wall, there are no concerns for the above ground resources. The current 18" culvert opening should be closed in a sympathetic manner, and the new 30" pipe opening should be as minimally invasive as possible. The camps built in the 1930s should not be impacted from this effort. The shuffleboard is likely not historic, and will be rebuilt if impacted by the Association.

☐ Concerns:**Below Ground Review**Recorded Archaeological site: ☐ Yes ☒ No

Nearest Recorded Archaeological Site Name & Number: 27-GR-0092 Bear MT Cellar Hole

☐ Pre-Contact ☒ Post-Contact

Distance from Project Area:

2.548 miles (4.1 km) Southwest of project area

☒ No Potential to Cause Effect/No Concerns

Area shows subsurface impacts associated with the road and 1972 concrete pipe culvert drainage construction; stone retaining wall and concrete sluice construction; grading and landscaping for the grass lawn, shuffleboard court and stone fireplace; dock constructions; beach fill; as well as 1930s+ hurricane damage

☐ Concerns:

Reviewed by:



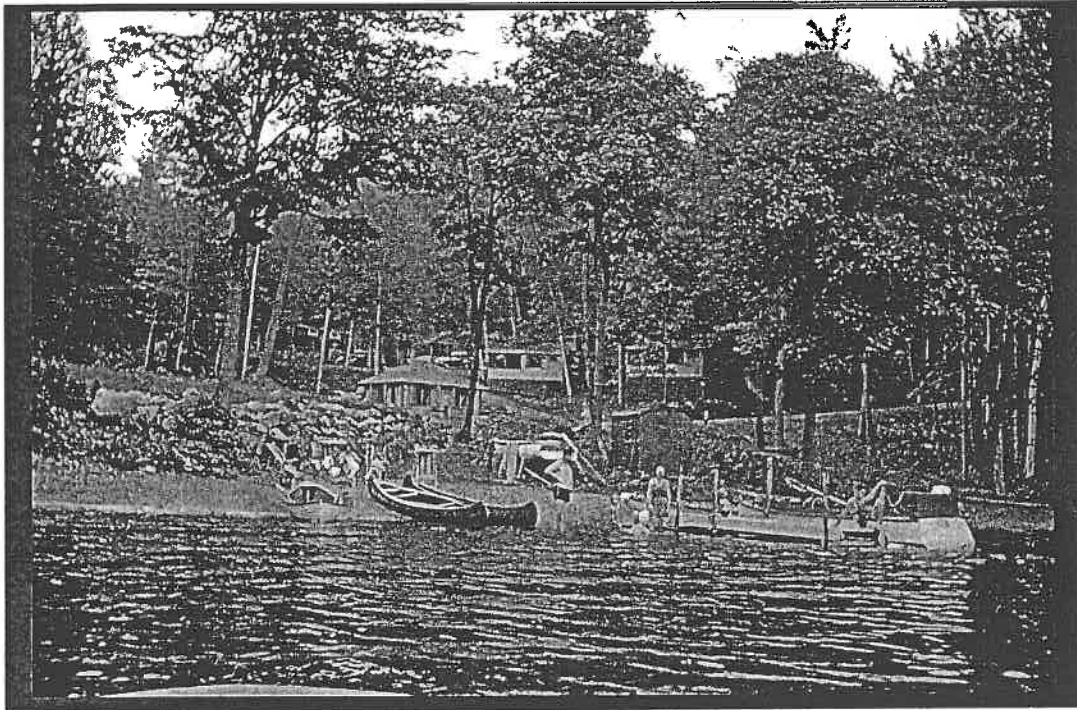
NHDOT Cultural Resources Staff

8/23/2017
Date:**Area History:**

The European-American history of Hebron (<http://www.hebronthistsoc.org>) began in 1761 with grants for the original township of Cockermouth and a portion of West Plymouth. Although a lack of settlement led to regrants for Plymouth in 1763 and Cockermouth in 1766 and 1772, it was not until 1791 that the new town of Hebron was sufficiently settled. The early colonists were agriculturalists who found the lake shore too rocky for farmlots. In the 1870s, the beginning of tourism led to increased lakeshore

The 1860 Walling, 1892 Hurd, and 1927 USGS Hebron maps do not depict any structures near the northwest lobe of Sanborn Bay of Newfound Lake in the study area, although as early as 1892 maps depict a road alignment that likely corresponds to the North Shore Road. By 1957, the USGS Hebron maps depicts two structures east of the road alignment including one very close to the shoreline. A cluster of structures appear on the west side of the road.

The Sleepy Hollow Village Association website shows 1930s black and white vintage nitrate photographs of Sleepy Hollow Camps cottages and lakeside, including post 'hurricane' destruction.



<https://www.flickr.com/photos/131503794@N02/33213811832/in/album-72157675660504894/>

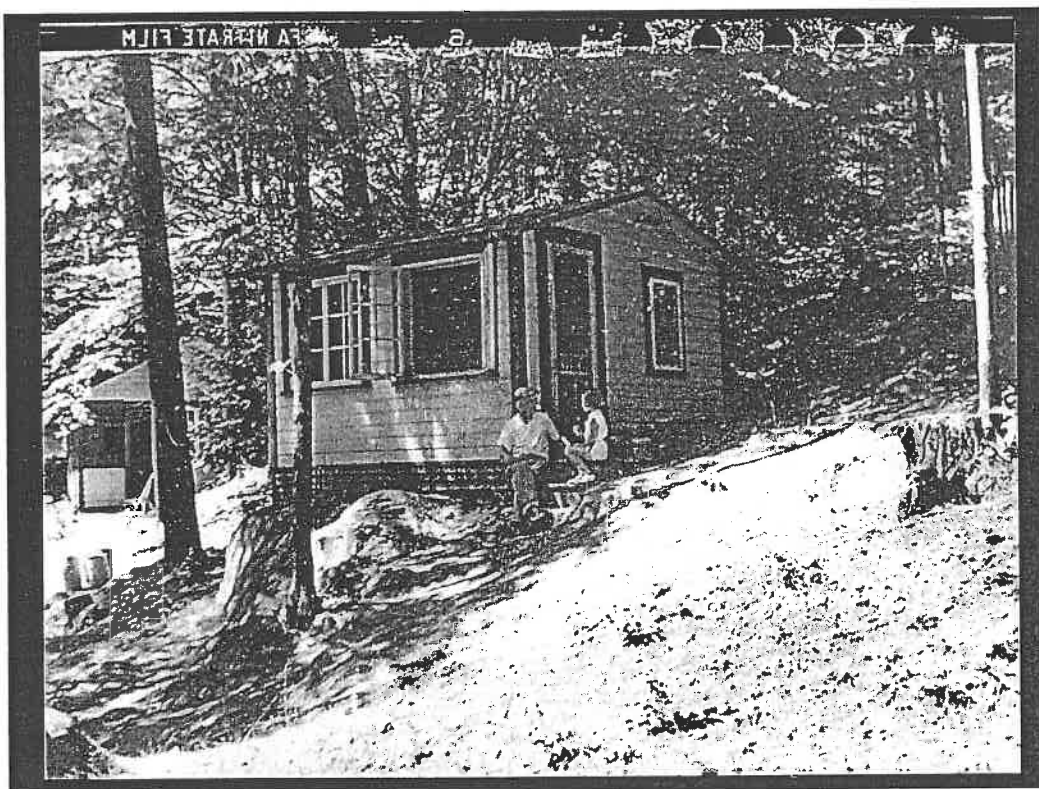
It cannot be verified if this lakeside aligns with the study area, however if it is the retaining wall has a different configuration than the extant fieldstone and mortar wall.



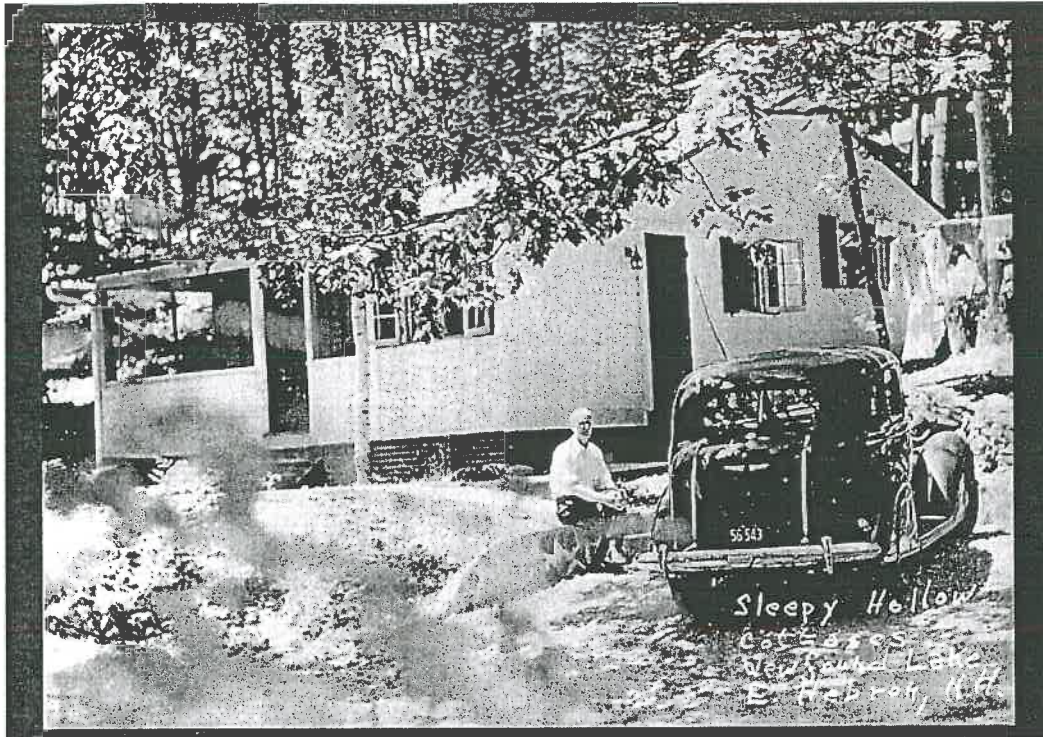
<https://www.flickr.com/photos/131503794@N02/32050860280/in/album-72157675660504894/>



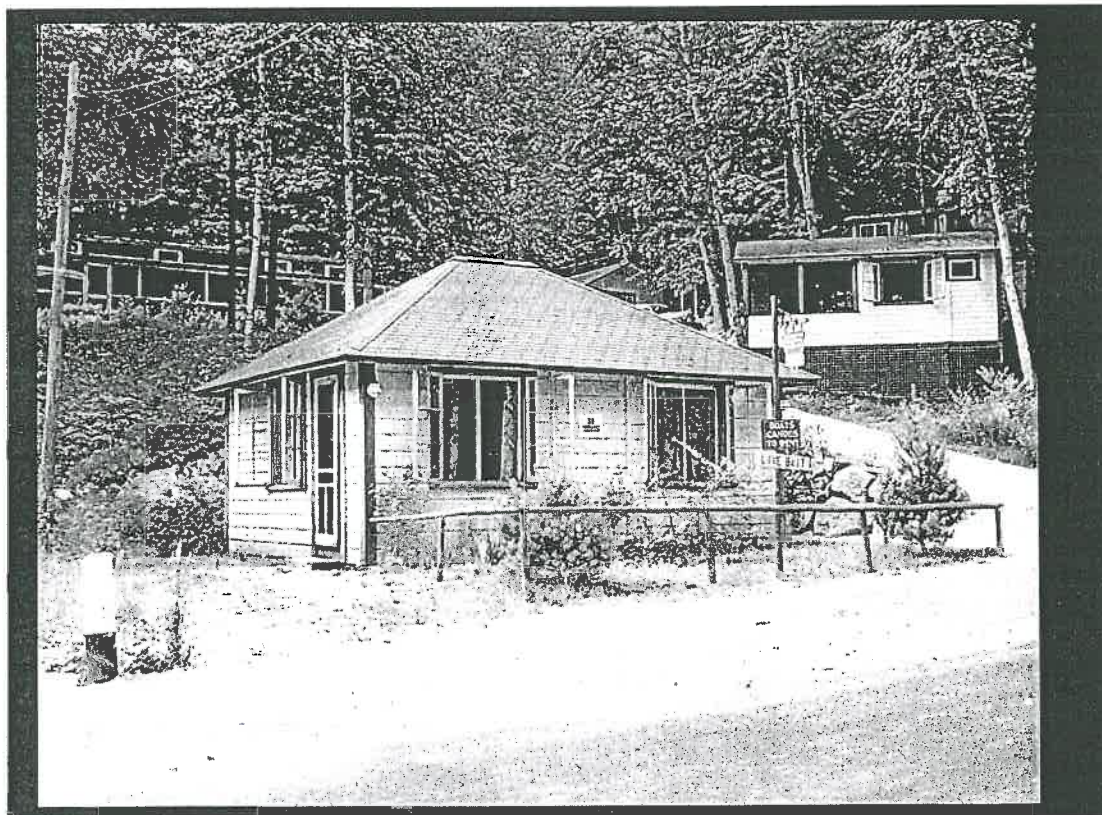
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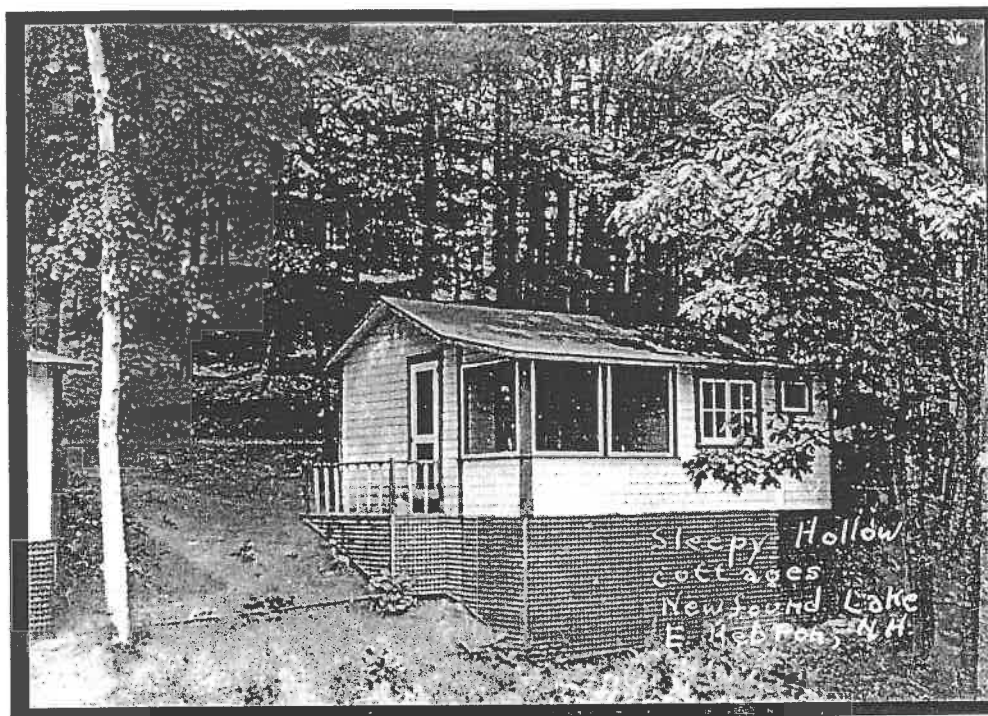
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US Army Corps
of Engineers[®]
New England District

U.S. Army Corps of Engineers
New Hampshire Programmatic General Permit (PGP)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps permit determination.
2. All references to "work" include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See PGP, GC 5 regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*		x
2. Wetlands	Yes	No
2.1 Are there streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	x	
2.2 Are there proposed impacts to SAS, shellfish beds, special wetlands and vernal pools (see PGP, GC 26 and Appendix A)? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) website, www.nhnaturalheritage.org , specifically the book Natural Community Systems of New Hampshire .		x
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	x	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		x
2.5 The overall project site is more than 40 acres.		x
2.6 What is the size of the existing impervious surface area?		
2.7 What is the size of the proposed impervious surface area?		
2.8 What is the % of the impervious area (new and existing) to the overall project site?	0	
3. Wildlife	Yes	No
3.1 Has the NHB determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require a NHB determination.)		x
3.2 Would work occur in any area identified as either "Highest Ranked Habitat in N.H." or "Highest Ranked Habitat in Ecological Region"? (These areas are colored magenta and green, respectively, on NH Fish and Game's map, "2010 Highest Ranked Wildlife Habitat by Ecological Condition.") Map information can be found at: <ul style="list-style-type: none"> • PDF: www.wildlife.state.nh.us/Wildlife/Wildlife_Plan/highest_ranking_habitat.htm. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html. 	x	
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		x
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		x
3.5 Are stream crossings designed in accordance with the PGP, GC 21?	X	

4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		x
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
5. Historic/Archaeological Resources		
If a minor or major impact project, has a copy of the Request for Project Review (RPR) Form (www.nh.gov/nhdhr/review) been sent to the NH Division of Historical Resources as required on Page 5 of the PGP?**	N/A	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.

** If project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.



Figure 1: Looking southwest



Figure 2: Looking northeast



Figure 3: Looking southeast at inlet



Figure 4: Looking northwest upstream



Figure 5: Looking southeast at inlet from further upstream

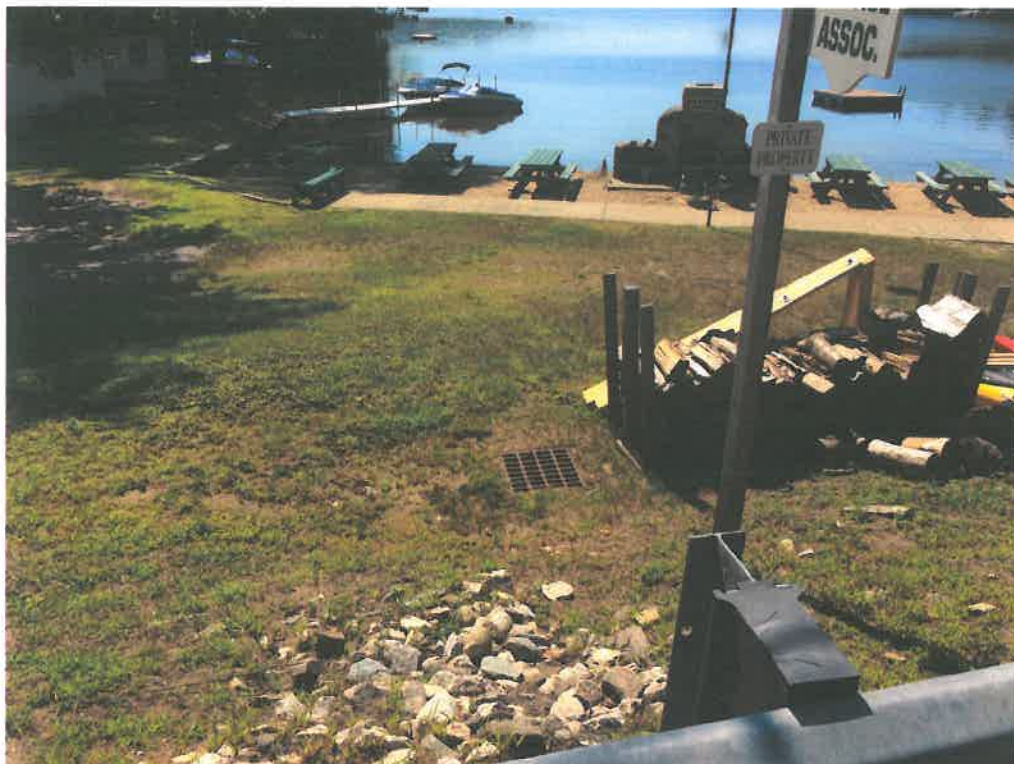


Figure 6: Looking southeast at catch basin where pipe changes from RCP to VCP



Figure 7: Looking west at outlet at Newfound Lake



Figure 8: Looking southeast at sluce



Figure 9: Looking west at approximate location of proposed sediment removal device outlet



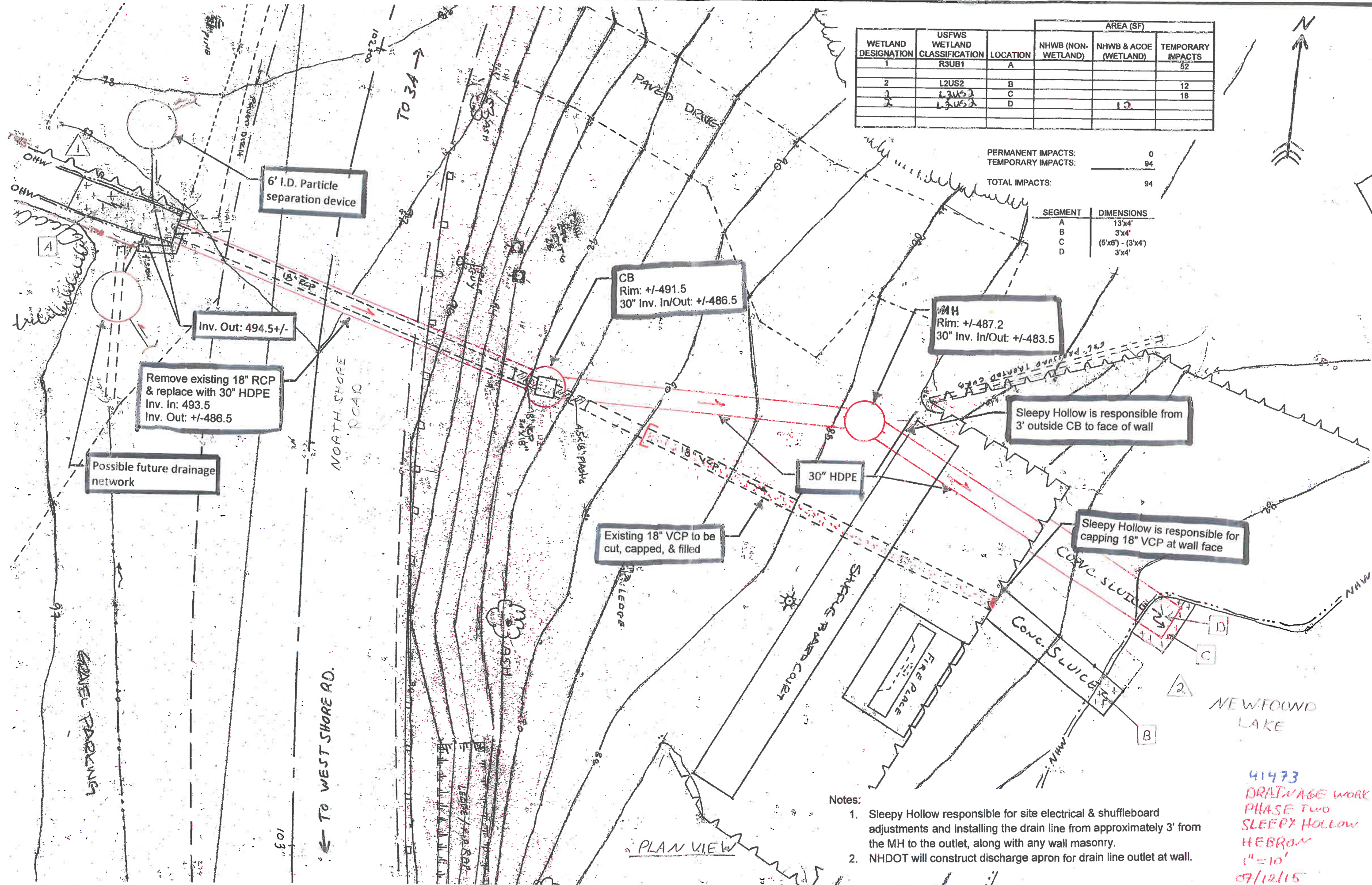
Figure 10: Looking northeast at approximate location of proposed sediment removal device outlet



WETLAND DESIGNATION	USFWS WETLAND CLASSIFICATION	LOCATION	AREA (SF)		
			NHWS (NON-WETLAND)	NHWS & ACOE (WETLAND)	TEMPORARY IMPACTS
1	R3UB1	A			52
2	L2US2	B			12
2	L3US2	C			18
2	L3US2	D		10	

PERMANENT IMPACTS: 0
 TEMPORARY IMPACTS: 94
 TOTAL IMPACTS: 94

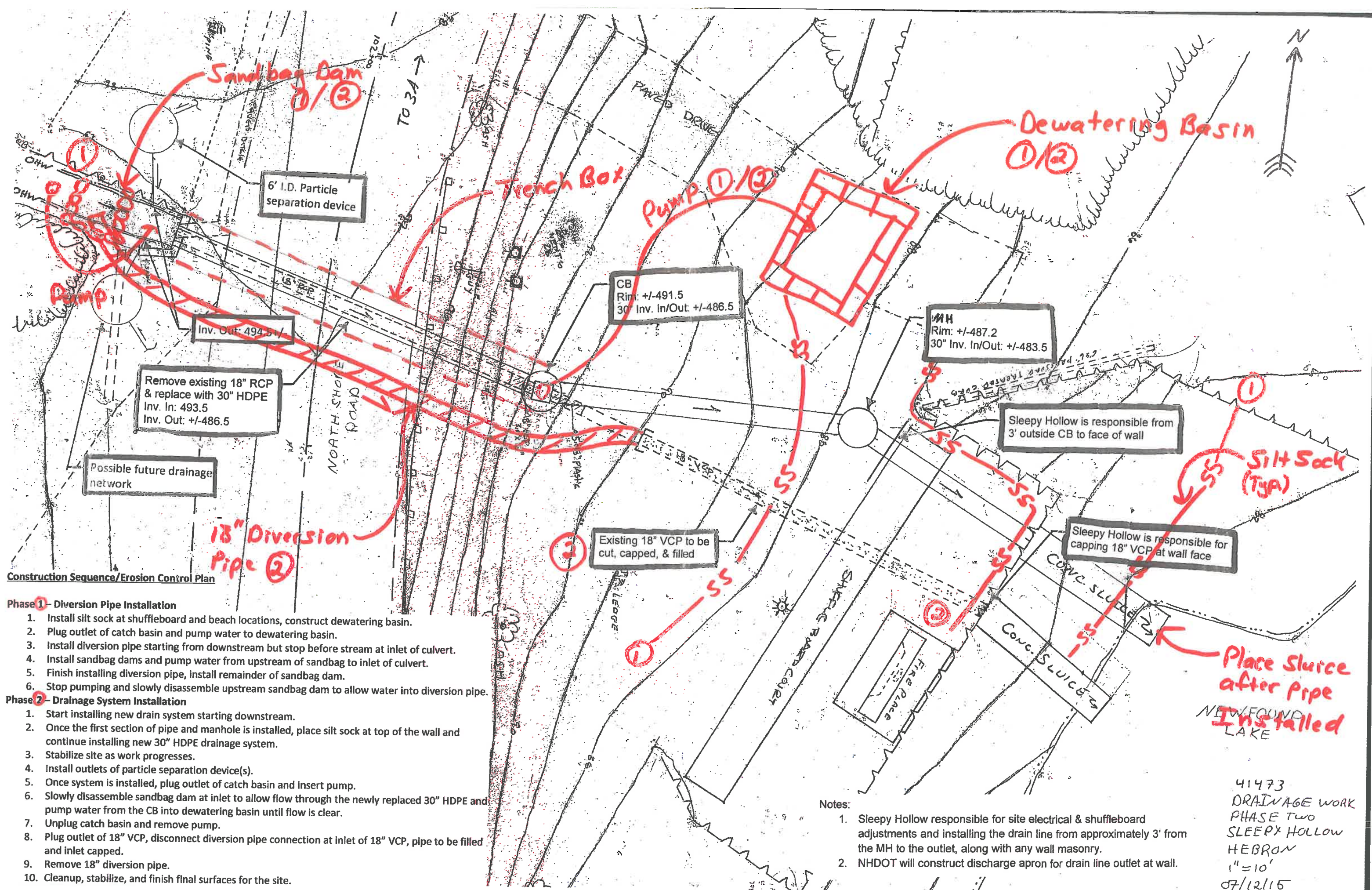
SEGMENT	DIMENSIONS
A	13'x4'
B	3'x4'
C	(5'x6') - (3'x4')
D	3'x4'

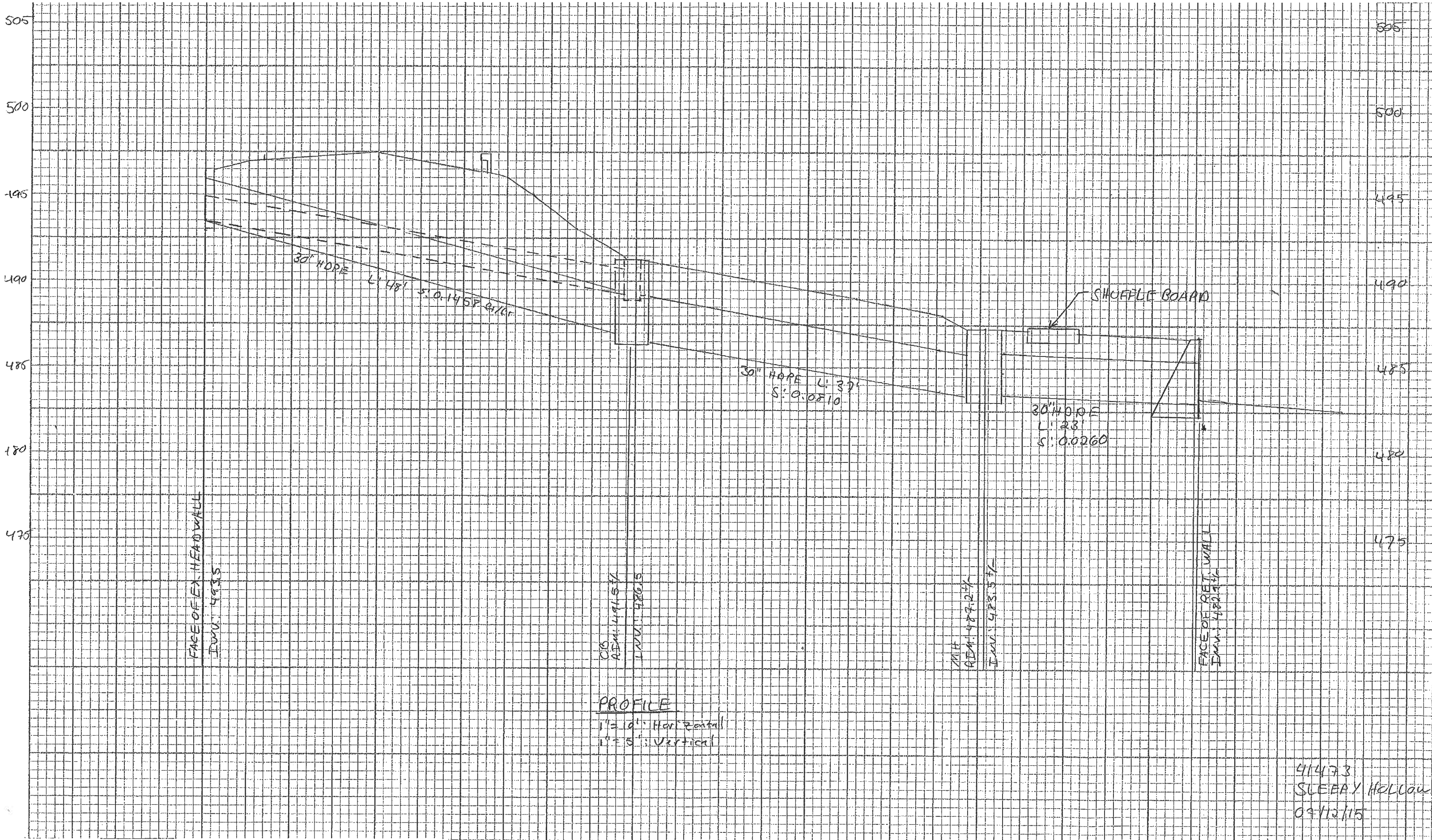


Notes:

1. Sleepy Hollow responsible for site electrical & shuffleboard adjustments and installing the drain line from approximately 3' from the MH to the outlet, along with any wall masonry.
2. NHDOT will construct discharge apron for drain line outlet at wall.

41473
 DRAINAGE WORK
 PHASE TWO
 SLEEPY HOLLOW
 HEBRON
 1"=10'
 07/12/15





41473
SLEEPY HOLLOW
09/12/15